LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-OILYWATER

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF133360.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.304 | 541 | 547 | 548 | rBV4 | 810267 | 1739834 | 2.78% | 0.647% |
| 2 | 5.528 | 576 | 585 | 587 | rVV3 | 1236054 | 3099234 | 4.95% | 1.152% |
| 3 | 5.581 | 590 | 594 | 597 | rVB2 | 2440165 | 3799952 | 6.07% | 1.413% |
| 4 | 5.663 | 597 | 608 | 609 | rBV | 1801038 | 3831071 | 6.12% | 1.425% |
| 5 | 5.804 | 609 | 632 | 635 | rVV | 7479366 | 49089366 | 78.42% | 18.254% |
| 6 | 5.840 | 635 | 638 | 642 | rVB4 | 493977 | 915785 | 1.46% | 0.341% |
| 7 | 6.075 | 669 | 678 | 681 | rBV | 4613367 | 4922482 | 7.86% | 1.830% |
| 8 | 6.398 | 723 | 733 | 737 | rBV2 | 3156131 | 4470229 | 7.14% | 1.662% |
| 9 | 6.551 | 745 | 759 | 762 | rBV3 | 814249 | 2622398 | 4.19% | 0.975% |
| 10 | 6.628 | 769 | 772 | 774 | rBV2 | 513856 | 642994 | 1.03% | 0.239% |
| 11 | 6.722 | 785 | 788 | 790 | rBV | 1165687 | 1139910 | 1.82% | 0.424% |
| 12 | 6.816 | 801 | 804 | 808 | rBV | 2630794 | 3718741 | 5.94% | 1.383% |
| 13 | 6.892 | 815 | 817 | 822 | rVB2 | 947605 | 1078571 | 1.72% | 0.401% |
| 14 | 7.122 | 853 | 856 | 858 | rBV | 880013 | 809059 | 1.29% | 0.301% |
| 15 | 7.145 | 858 | 860 | 862 | rVV2 | 948526 | 1024625 | 1.64% | 0.381% |
| 16 | 7.169 | 862 | 864 | 870 | rVB2 | 1155197 | 1218781 | 1.95% | 0.453% |
| 17 | 7.287 | 882 | 884 | 887 | rVB | 2327711 | 1961206 | 3.13% | 0.729% |
| 18 | 7.387 | 896 | 901 | 905 | rVV3 | 336362 | 668519 | 1.07% | 0.249% |
| 19 | 7.692 | 943 | 953 | 954 | rBV3 | 1364867 | 2365276 | 3.78% | 0.880% |
| 20 | 8.004 | 959 | 1006 | 1008 | rBV3 | 6801080 | 62598961 | 100.00% | 23.277% |
| 21 | 8.486 | 1082 | 1088 | 1092 | rBV2 | 5792162 | 11284132 | 18.03% | 4.196% |
| 22 | 8.533 | 1094 | 1096 | 1100 | rVB4 | 3311992 | 4870267 | 7.78% | 1.811% |
| 23 | 8.581 | 1100 | 1104 | 1105 | rBV2 | 1920882 | 2446503 | 3.91% | 0.910% |
| 24 | 8.622 | 1105 | 1111 | 1112 | rVV2 | 4661918 | 8356812 | 13.35% | 3.107% |
| 25 | 8.657 | 1116 | 1117 | 1118 | rVV | 1964677 | 1299893 | 2.08% | 0.483% |
| 26 | 8.675 | 1118 | 1120 | 1122 | rVV | 2762651 | 3159189 | 5.05% | 1.175% |
| 27 | 8.698 | 1122 | 1124 | 1128 | rVB3 | 4187269 | 4519241 | 7.22% | 1.680% |
| 28 | 8.828 | 1142 | 1146 | 1154 | rBV2 | 955655 | 1894000 | 3.03% | 0.704% |
| 29 | 9.075 | 1175 | 1188 | 1190 | rBV | 4637200 | 12889780 | 20.59% | 4.793% |
| 30 | 9.098 | 1190 | 1192 | 1196 | rVB | 3799863 | 3061393 | 4.89% | 1.138% |
| 31 | 9.286 | 1221 | 1224 | 1230 | rVV2 | 1979668 | 2370250 | 3.79% | 0.881% |
| 32 | 9.545 | 1259 | 1268 | 1269 | rVV | 3096809 | 5672719 | 9.06% | 2.109% |
| 33 | 9.563 | 1269 | 1271 | 1276 | rVV3 | 1065001 | 1071784 | 1.71% | 0.399% |
| 34 | 9.769 | 1293 | 1306 | 1308 | rBV | 3841266 | 8963563 | 14.32% | 3.333% |
| 35 | 9.969 | 1332 | 1340 | 1345 | rVV2 | 3017834 | 6029504 | 9.63% | 2.242% |
| 36 | 10.016 | 1345 | 1348 | 1355 | rVB2 | 670144 | 716854 | 1.15% | 0.267% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-OILYWATER

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 10.192 | 1371 | 1378 | 1380 | rBV | 2981408 | 4723293 | 7.55% | 1.756% |
| 38 | 10.475 | 1423 | 1426 | 1429 | rBV | 1635510 | 1454008 | 2.32% | 0.541% |
| 39 | 10.557 | 1436 | 1440 | 1442 | rBV | 1541686 | 1342689 | 2.14% | 0.499% |
| 40 | 10.639 | 1450 | 1454 | 1458 | rBV | 1439448 | 1487383 | 2.38% | 0.553% |
| 41 | 10.792 | 1473 | 1480 | 1482 | rBV3 | 443085 | 896827 | 1.43% | 0.333% |
| 42 | 11.004 | 1511 | 1516 | 1520 | rVV2 | 395450 | 643780 | 1.03% | 0.239% |
| 43 | 11.092 | 1528 | 1531 | 1537 | rBV2 | 1242672 | 1457159 | 2.33% | 0.542% |
| 44 | 11.145 | 1537 | 1540 | 1542 | rVB | 1466740 | 1208831 | 1.93% | 0.449% |
| 45 | 11.239 | 1553 | 1556 | 1567 | rVB | 1499895 | 1627565 | 2.60% | 0.605% |
| 46 | 11.545 | 1603 | 1608 | 1614 | rBV5 | 829318 | 1458165 | 2.33% | 0.542% |
| 47 | 11.710 | 1632 | 1636 | 1642 | rBV | 602094 | 945110 | 1.51% | 0.351% |
| 48 | 11.792 | 1644 | 1650 | 1653 | rBV2 | 2387936 | 2979846 | 4.76% | 1.108% |
| 49 | 11.822 | 1653 | 1655 | 1659 | rVB | 1182802 | 1172243 | 1.87% | 0.436% |
| 50 | 11.910 | 1666 | 1670 | 1673 | rBV | 1087238 | 982634 | 1.57% | 0.365% |
| 51 | 12.221 | 1720 | 1723 | 1728 | rVB2 | 868609 | 1021239 | 1.63% | 0.380% |
| 52 | 12.569 | 1778 | 1782 | 1786 | rVV | 971051 | 1090013 | 1.74% | 0.405% |
| 53 | 12.821 | 1821 | 1825 | 1828 | rBV | 2786180 | 2270417 | 3.63% | 0.844% |
| 54 | 12.869 | 1830 | 1833 | 1843 | rVB | 1338206 | 1499042 | 2.39% | 0.557% |
| 55 | 13.221 | 1890 | 1893 | 1903 | rVB | 1262933 | 1543532 | 2.47% | 0.574% |
| 56 | 13.739 | 1979 | 1981 | 1988 | rVV2 | 500831 | 666056 | 1.06% | 0.248% |
| 57 | 13.798 | 1988 | 1991 | 1997 | rVV | 1139437 | 1311368 | 2.09% | 0.488% |
| 58 | 13.874 | 2000 | 2004 | 2011 | rVB | 1199014 | 1263579 | 2.02% | 0.470% |
| 59 | 14.115 | 2042 | 2045 | 2055 | rVB | 1018140 | 1259429 | 2.01% | 0.468% |
| 60 | 14.633 | 2130 | 2133 | 2142 | rBV | 828970 | 1125014 | 1.80% | 0.418% |
| 61 | 14.957 | 2184 | 2188 | 2196 | rVB | 609233 | 858009 | 1.37% | 0.319% |
| 62 | 15.292 | 2241 | 2245 | 2254 | rBV | 1162551 | 1541662 | 2.46% | 0.573% |
| 63 | 15.598 | 2293 | 2297 | 2309 | rVB2 | 372166 | 778570 | 1.24% | 0.290% |

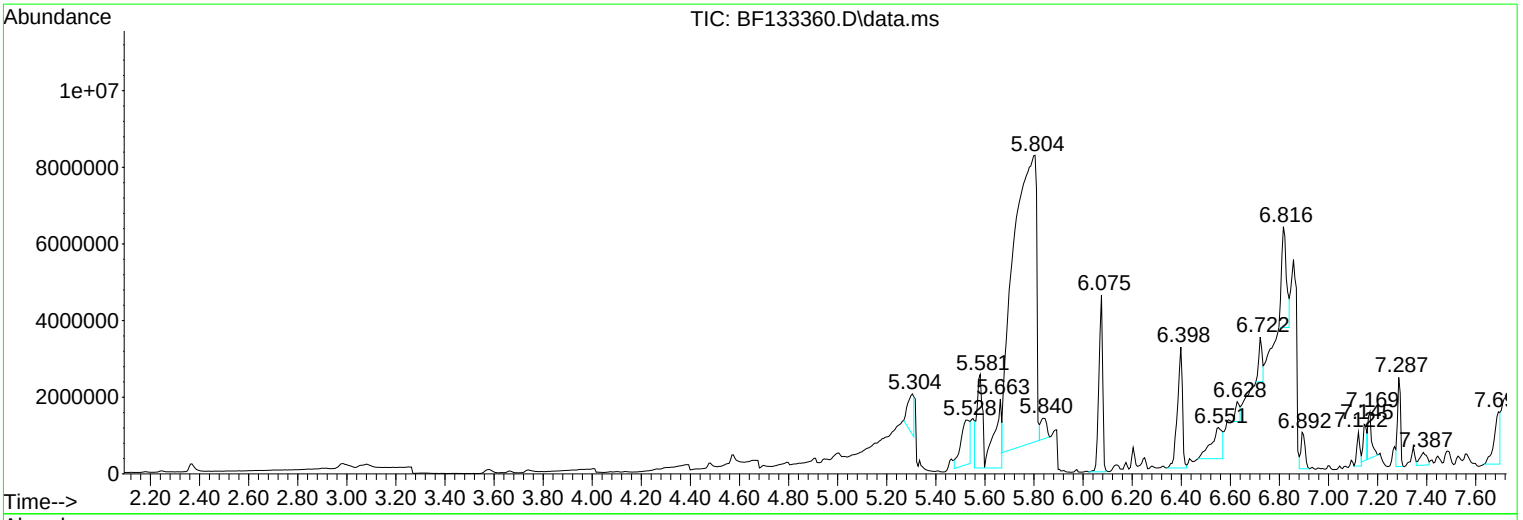
Sum of corrected areas: 268930341

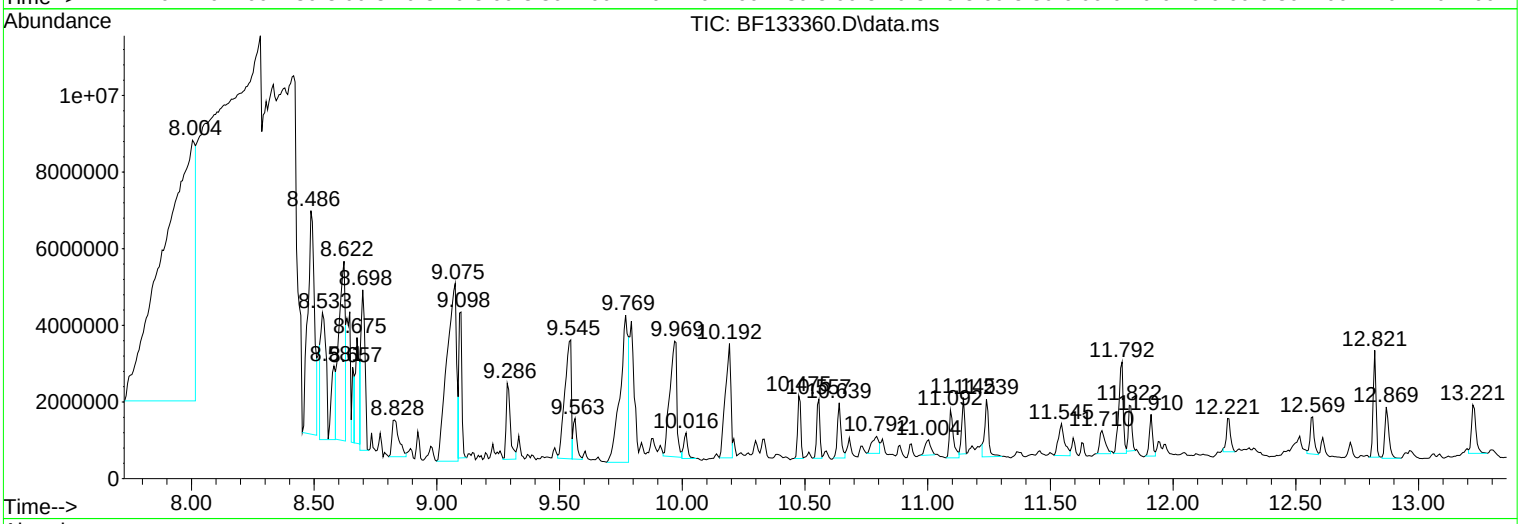
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

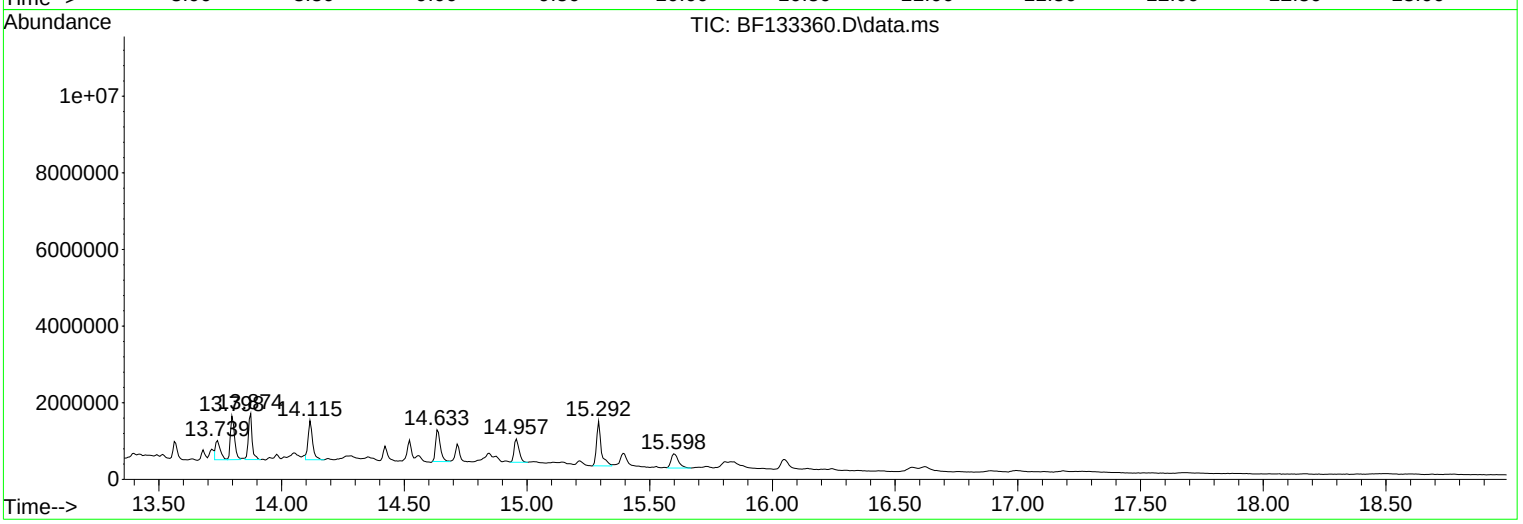
**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

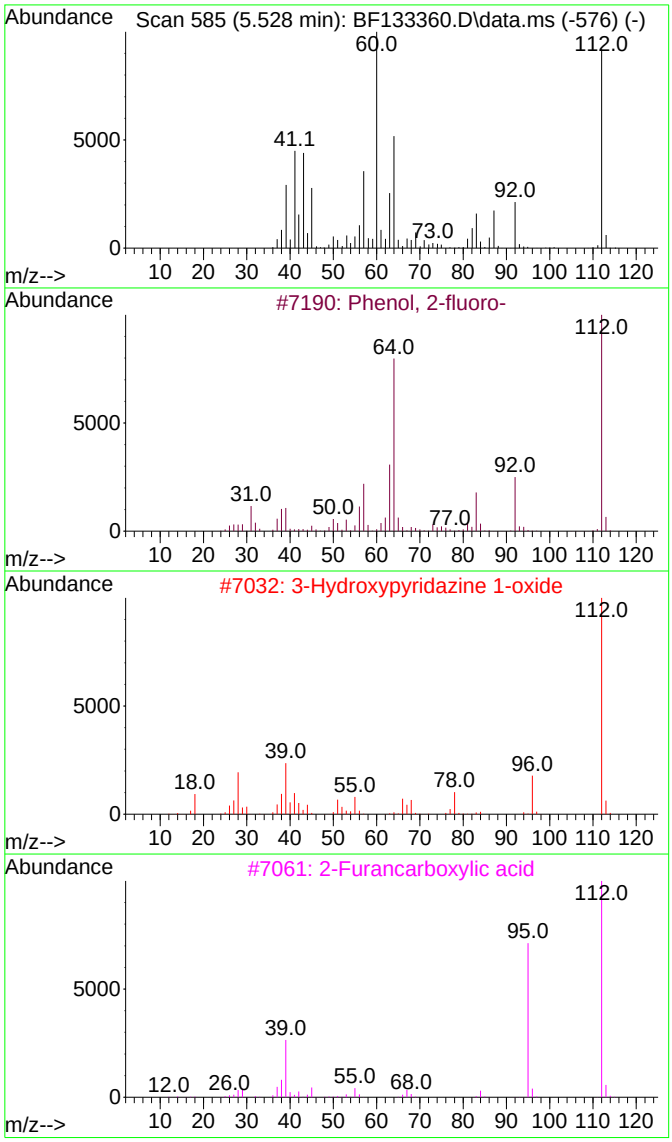
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

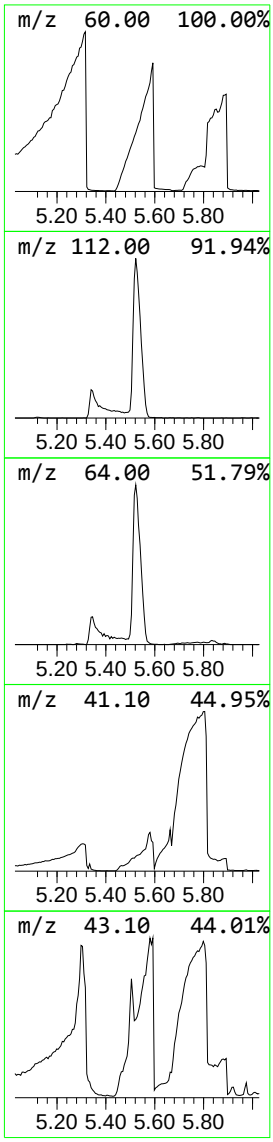
**********

Peak Number 1 unknown5.528 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.528 | 54.38 ng | 3099230 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-fluoro- | 112 | C6H5FO | 000367-12-4 | 93 |
| 2 | 3-Hydroxypyridazine 1-oxide | 112 | C4H4N2O2 | 018259-51-3 | 11 |
| 3 | 2-Furancarboxylic acid | 112 | C5H4O3 | 000088-14-2 | 11 |
| 4 | Phenol, 4-fluoro- | 112 | C6H5FO | 000371-41-5 | 10 |
| 5 | Pyridine, 1,2,3,6-tetrahydro-1-n... | 112 | C5H8N2O | 055556-92-8 | 10 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

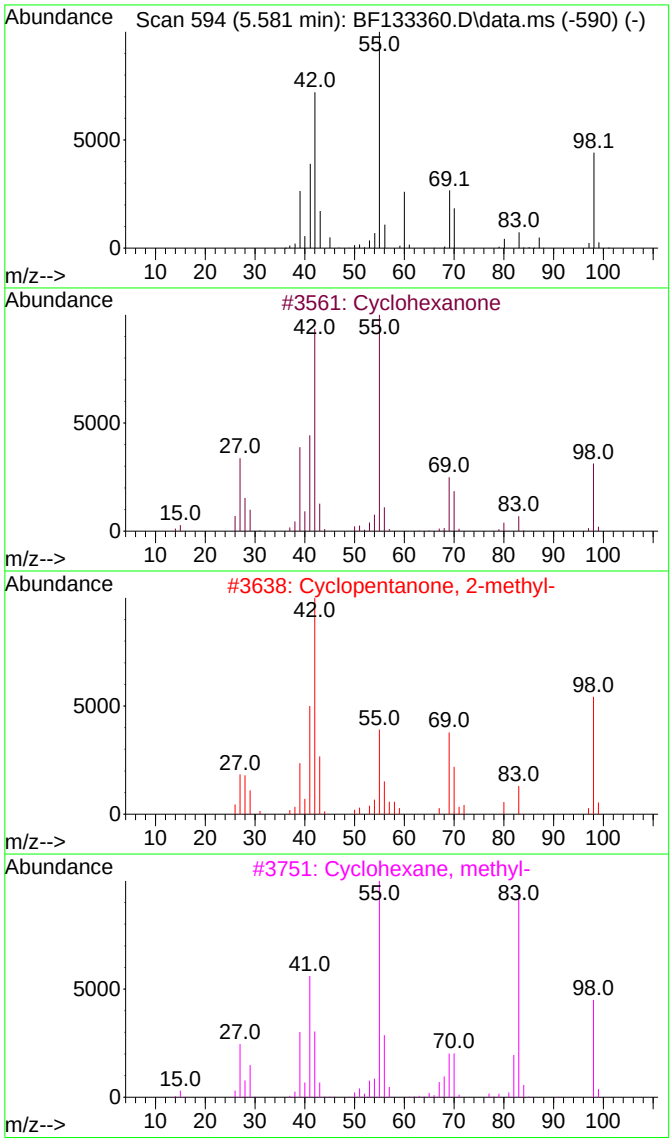
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

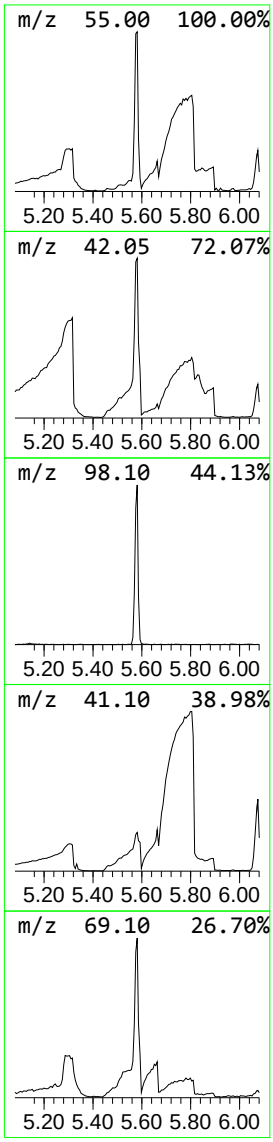
**********

Peak Number 2 Cyclohexanone Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.581 | 66.67 ng | 3799950 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 81 |
| 2 | Cyclopentanone, 2-methyl- | 98 | C6H10O | 001120-72-5 | 58 |
| 3 | Cyclohexane, methyl- | 98 | C7H14 | 000108-87-2 | 47 |
| 4 | Bis(1-hydroxycyclohexyl) peroxide | 230 | C12H22O4 | 002407-94-5 | 45 |
| 5 | 4,5-Dihydro-2-methylimidazole-4-one | 98 | C4H6N2O | 004915-81-5 | 42 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

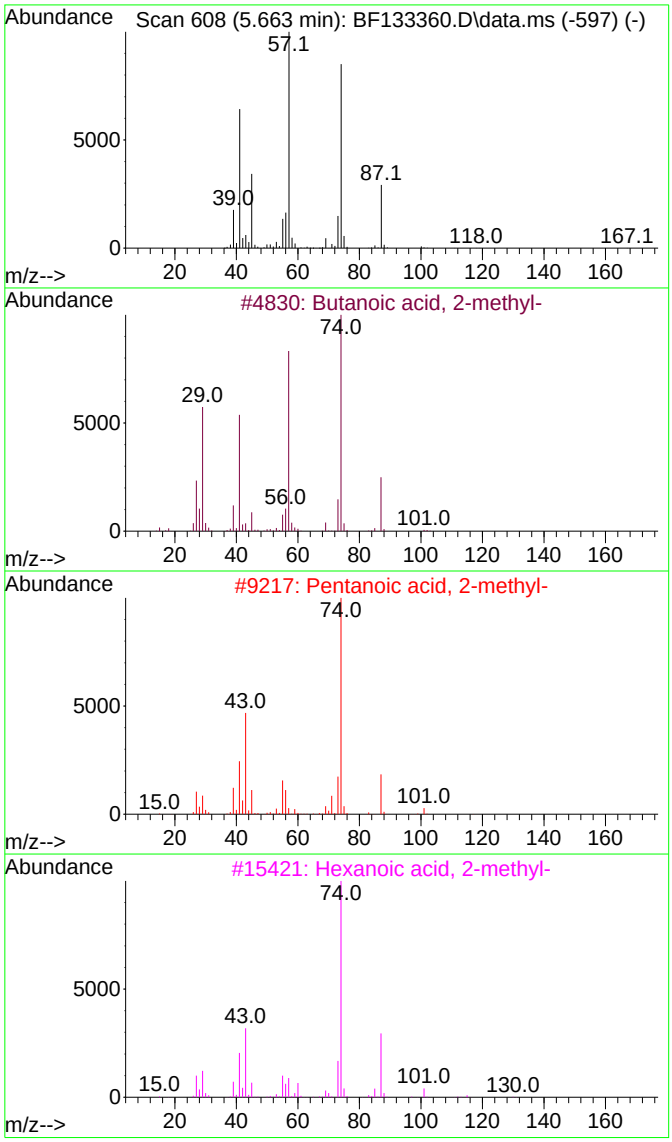
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

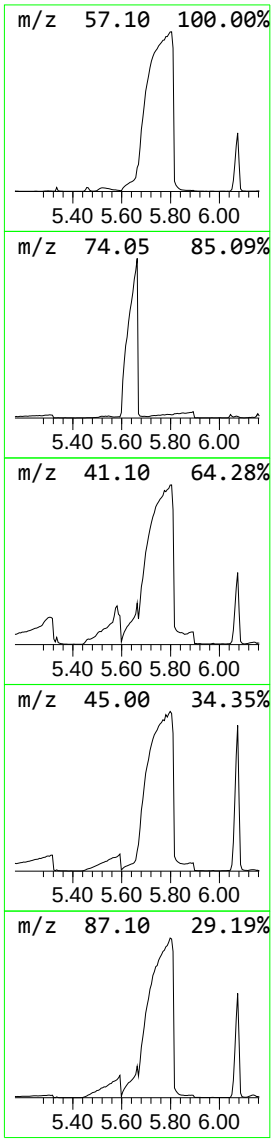
**********

Peak Number 3 Butanoic acid, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.663 | 67.22 ng | 3831070 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 2-methyl- | 102 | C5H10O2 | 000116-53-0 | 72 |
| 2 | Pentanoic acid, 2-methyl- | 116 | C6H12O2 | 000097-61-0 | 53 |
| 3 | Hexanoic acid, 2-methyl- | 130 | C7H14O2 | 004536-23-6 | 45 |
| 4 | Methyl 2-butoxyacetate | 146 | C7H14O3 | 1000366-88-4 | 40 |
| 5 | 2,4-Dimethylpentanoic acid | 130 | C7H14O2 | 005868-33-7 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

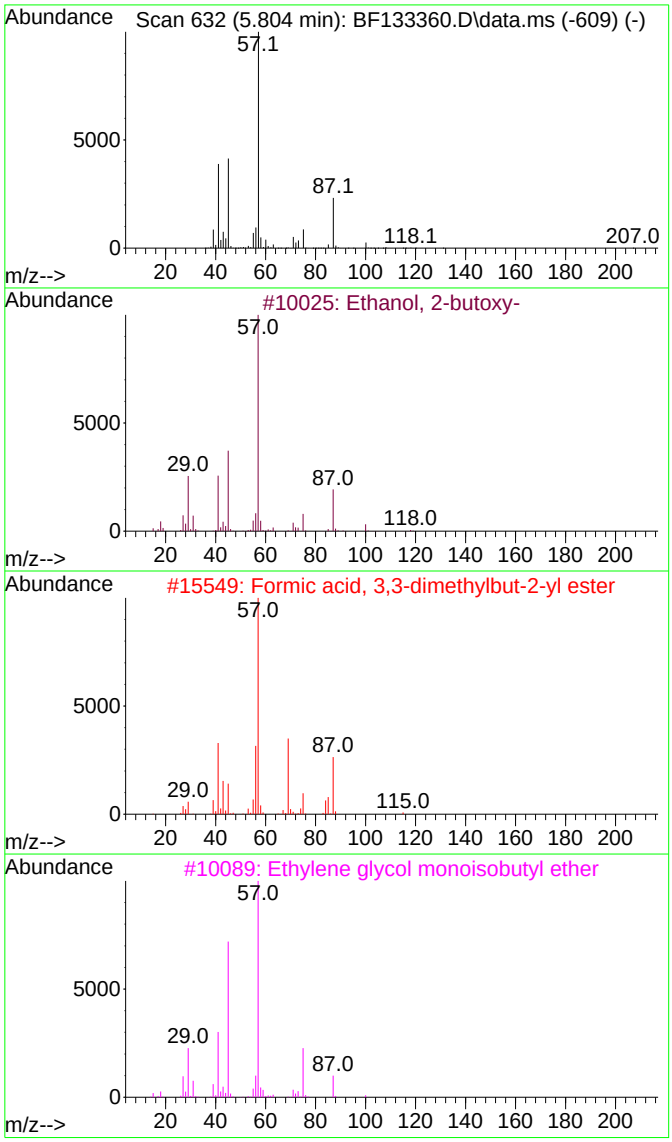
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

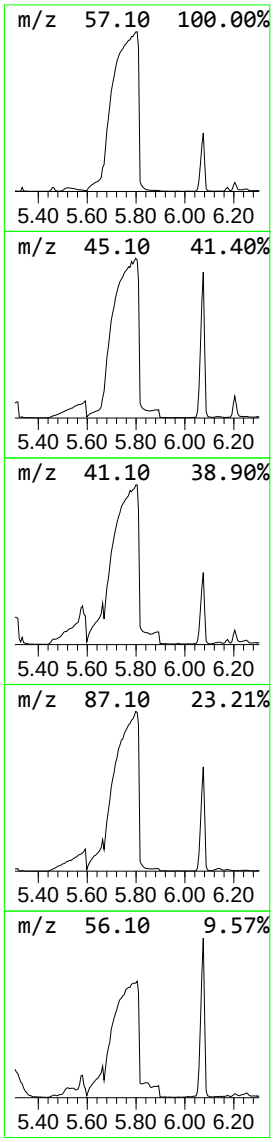
**********

Peak Number 4 Ethanol, 2-butoxy- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.804 | 861.28 ng | 49089400 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-butoxy- | 118 | C6H14O2 | 000111-76-2 | 72 |
| 2 | Formic acid, 3,3-dimethylbut-2-y... | 130 | C7H14O2 | 1000368-20-5 | 59 |
| 3 | Ethylene glycol monoisobutyl ether | 118 | C6H14O2 | 004439-24-1 | 53 |
| 4 | Butane, 1-(1-methylpropoxy)- | 130 | C8H18O | 000999-65-5 | 50 |
| 5 | Propane, 1-methoxy-2,2-dimethyl- | 102 | C6H14O | 001118-00-9 | 36 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

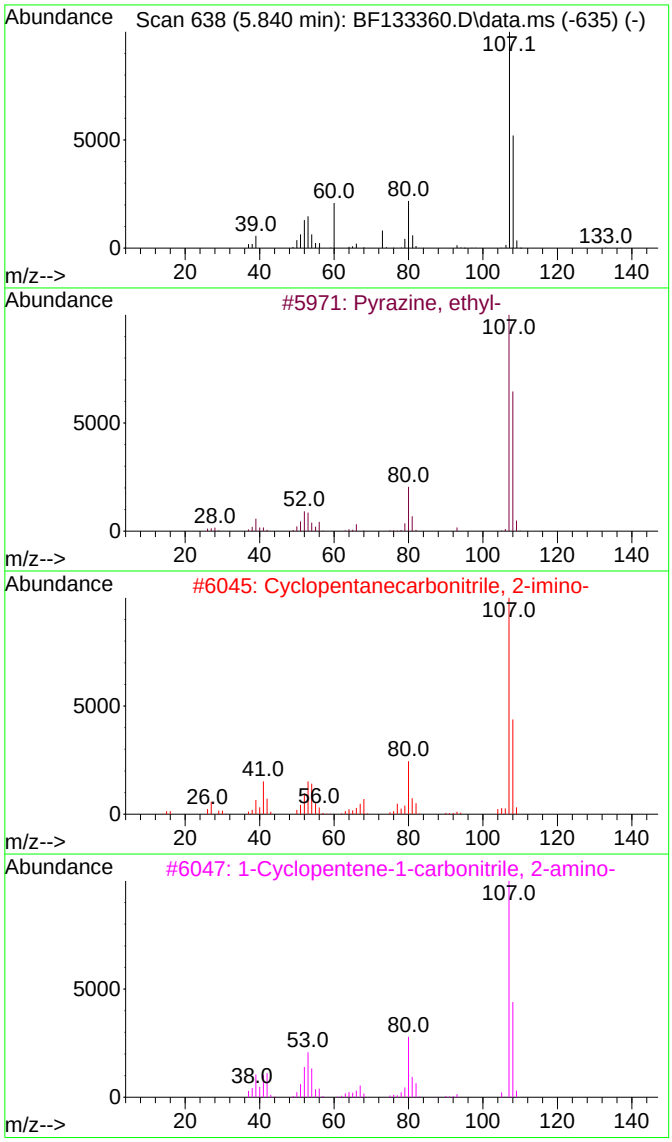
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

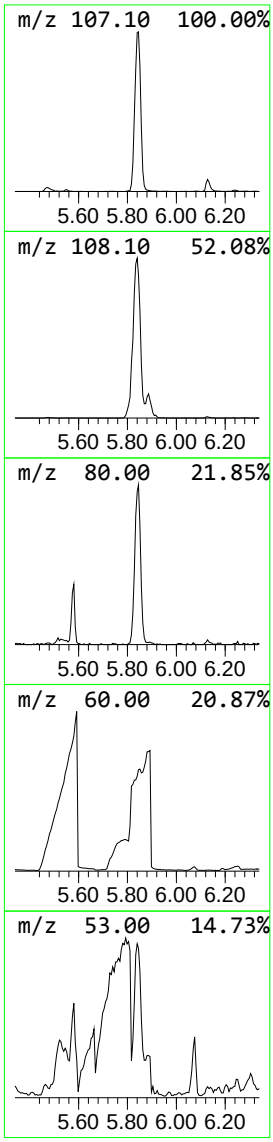
**********

Peak Number 5 Pyrazine, ethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.840 | 16.07 ng | 915785 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrazine, ethyl- | 108 | C6H8N2 | 013925-00-3 | 87 |
| 2 | Cyclopentanecarbonitrile, 2-imino- | 108 | C6H8N2 | 002321-76-8 | 80 |
| 3 | 1-Cyclopentene-1-carbonitrile, 2... | 108 | C6H8N2 | 1000338-25-5 | 72 |
| 4 | Pyrrolidine, 2-(cyanomethylene)- | 108 | C6H8N2 | 1000197-01-1 | 52 |
| 5 | (1H)Imidazole-4-acetonitrile | 107 | C5H5N3 | 018502-05-1 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

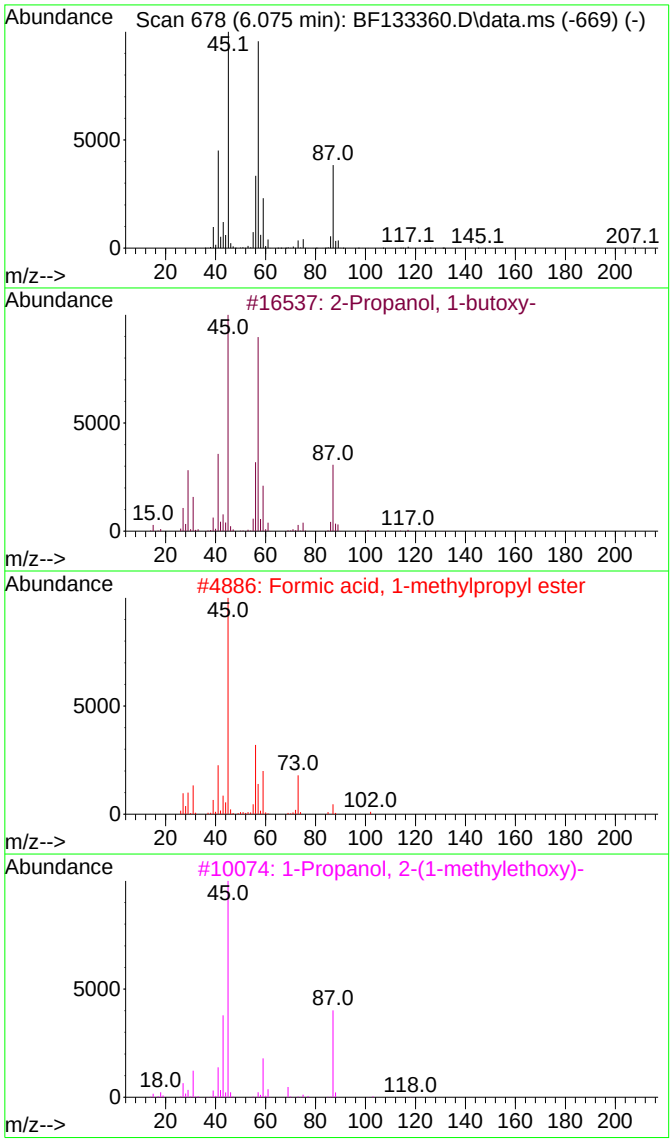
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

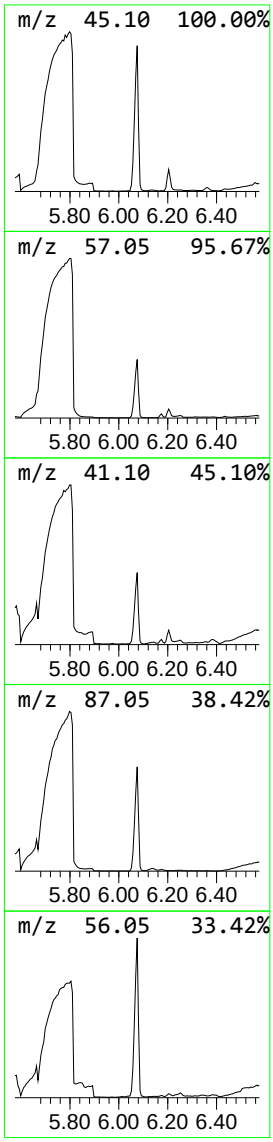
**********

Peak Number 6 2-Propanol, 1-butoxy- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.075 | 86.37 ng | 4922480 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1-butoxy- | 132 | C7H16O2 | 005131-66-8 | 90 |
| 2 | Formic acid, 1-methylpropyl ester | 102 | C5H10O2 | 000589-40-2 | 50 |
| 3 | 1-Propanol, 2-(1-methylethoxy)- | 118 | C6H14O2 | 003944-37-4 | 45 |
| 4 | Ethylene glycol monoisobutyl ether | 118 | C6H14O2 | 004439-24-1 | 43 |
| 5 | 2-Butanol | 74 | C4H10O | 000078-92-2 | 43 |



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Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

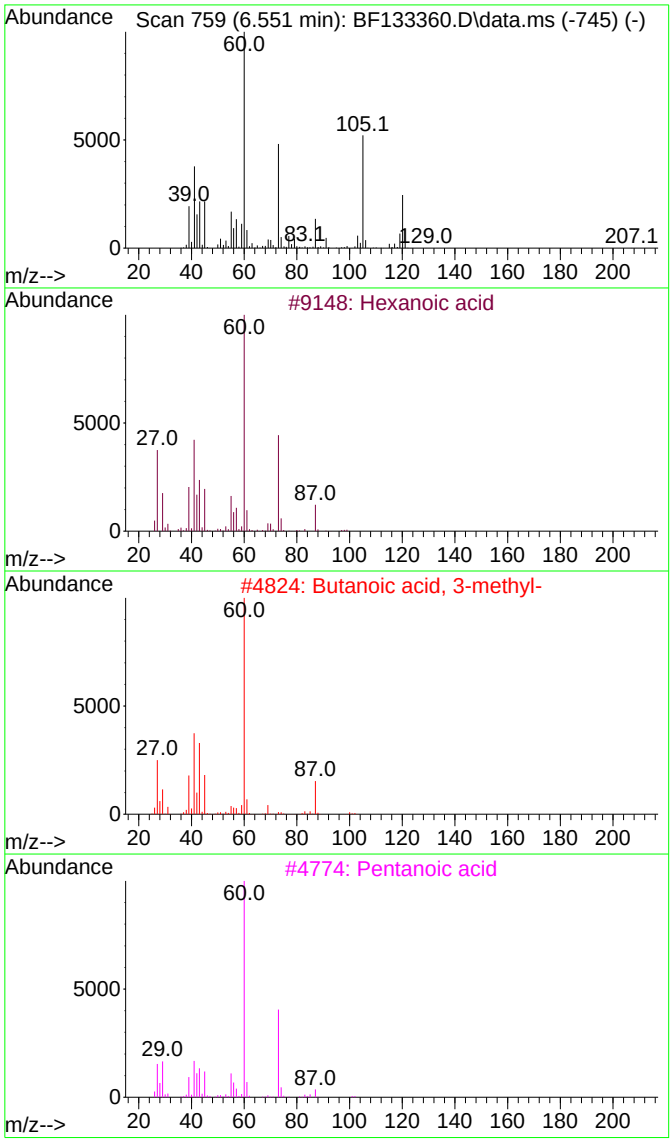
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

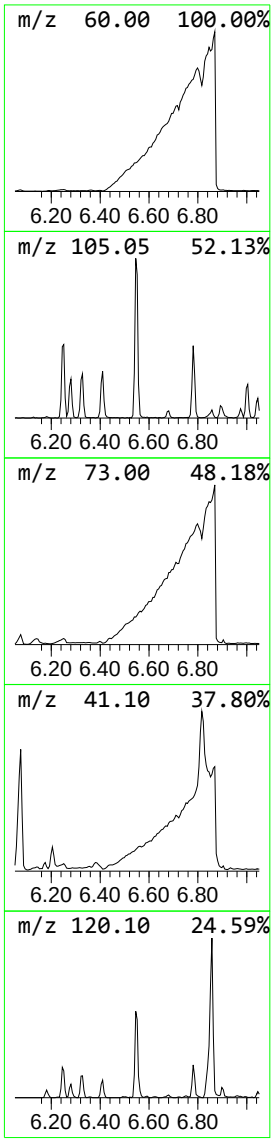
**********

Peak Number 7 Hexanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.551 | 46.01 ng | 2622400 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 58 |
| 2 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 52 |
| 3 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 49 |
| 4 | Octanoic acid | 144 | C8H16O2 | 000124-07-2 | 40 |
| 5 | (S)-(-)-2-Amino-3-phenyl-1-propanol | 151 | C9H13NO | 003182-95-4 | 38 |



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Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

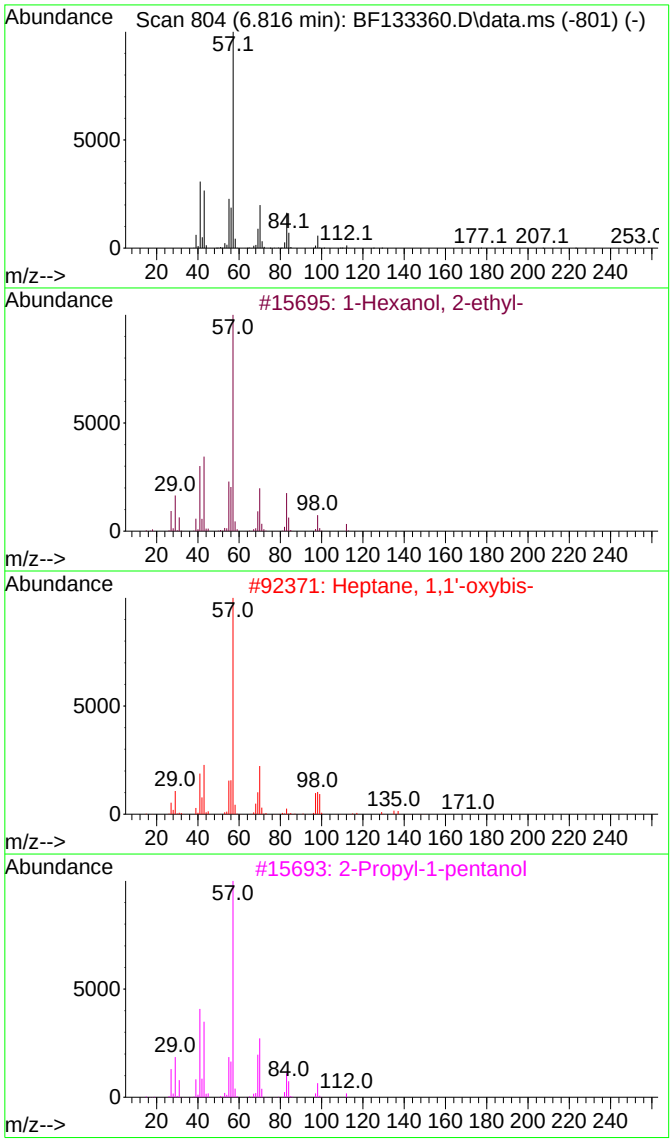
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

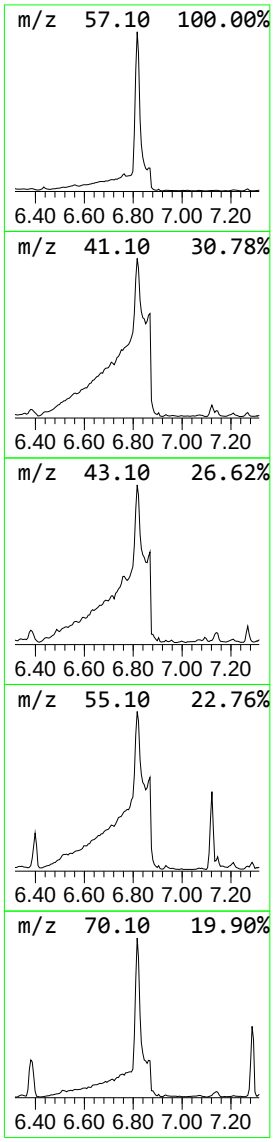
**********

Peak Number 8 1-Hexanol, 2-ethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.816 | 65.25 ng | 3718740 | 1,4-Dichlorobenzene-d4 | 6.722 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 83 |
| 2 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 64 |
| 3 | 2-Propyl-1-pentanol | 130 | C8H18O | 058175-57-8 | 64 |
| 4 | Carbonic acid, heptyl vinyl ester | 186 | C10H18O3 | 1010383-25-4 | 50 |
| 5 | 2-Ethyl-1-hexanol, methyl ether | 144 | C9H20O | 1000365-10-2 | 50 |



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Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

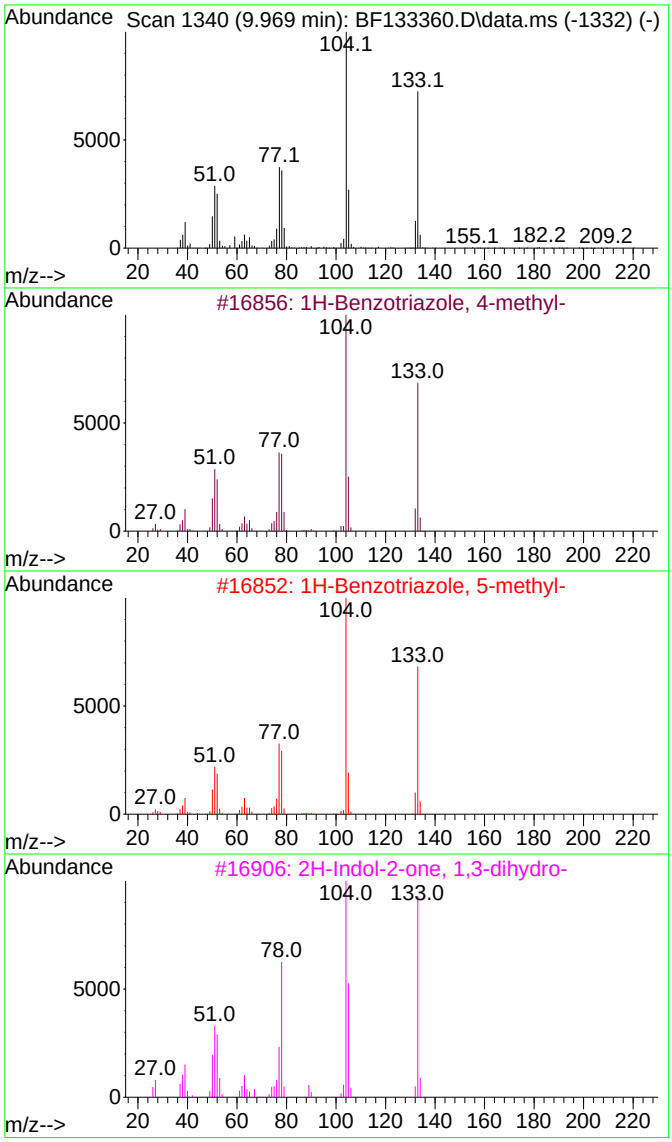
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

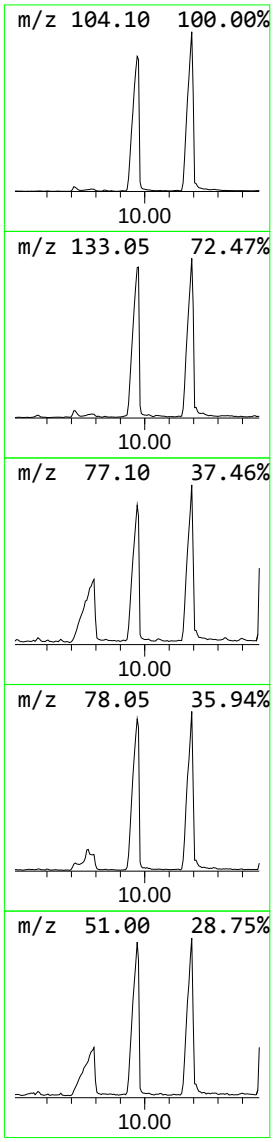
**********

Peak Number 9 1H-Benzotriazole, 4-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.969 | 13.45 ng | 6029500 | Acenaphthene-d10 | 9.769 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Benzotriazole, 4-methyl- | 133 | C7H7N3 | 029878-31-7 | 98 |
| 2 | 1H-Benzotriazole, 5-methyl- | 133 | C7H7N3 | 000136-85-6 | 96 |
| 3 | 2H-Indol-2-one, 1,3-dihydro- | 133 | C8H7NO | 000059-48-3 | 74 |
| 4 | Benzene, 1-azido-2-methyl- | 133 | C7H7N3 | 031656-92-5 | 72 |
| 5 | Benzene, 1-isocyanato-2-methyl- | 133 | C8H7NO | 000614-68-6 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

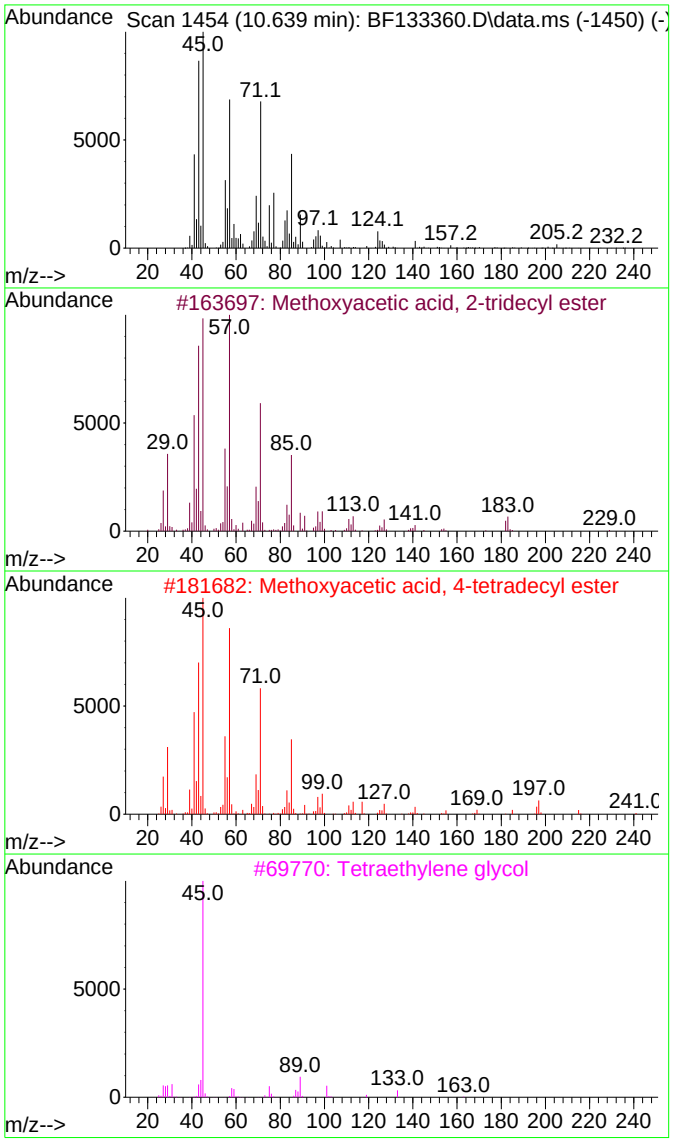
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

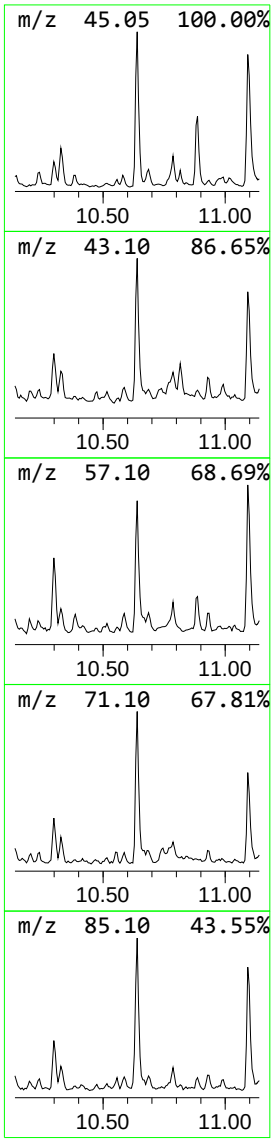
**********

Peak Number 10 unknown10.639 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.639 | 18.28 ng | 1487380 | Phenanthrene-d10 | 11.239 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methoxyacetic acid, 2-tridecyl e... | 272 | C16H32O3 | 1000282-04-5 | 49 |
| 2 | Methoxyacetic acid, 4-tetradecyl... | 286 | C17H34O3 | 1000282-05-0 | 47 |
| 3 | Tetraethylene glycol | 194 | C8H18O5 | 000112-60-7 | 35 |
| 4 | Diethylene glycol hexyl ether | 190 | C10H22O3 | 000112-59-4 | 27 |
| 5 | DL-O-Methylserine, N-(n-propylox... | 219 | C9H17NO5 | 1000453-30-6 | 27 |



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Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

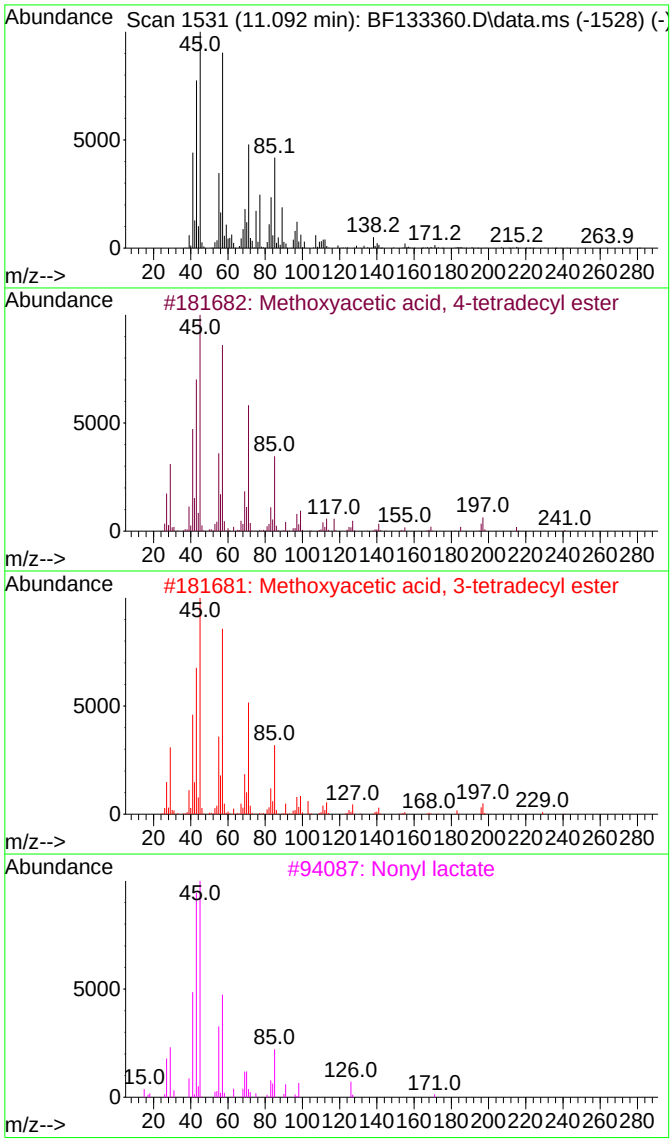
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

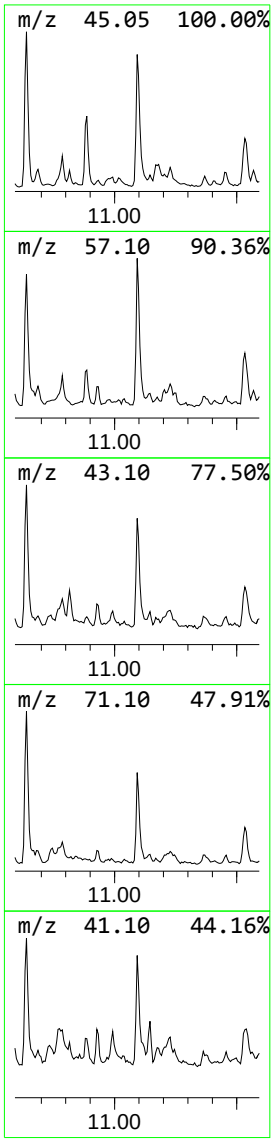
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 Methoxyacetic acid, 4-tetra... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.092 | 17.91 ng | 1457160 | Phenanthrene-d10 | 11.239 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methoxyacetic acid, 4-tetradecyl... | 286 | C17H34O3 | 1000282-05-0 | 64 |
| 2 | Methoxyacetic acid, 3-tetradecyl... | 286 | C17H34O3 | 1000282-04-9 | 52 |
| 3 | Nonyl lactate | 216 | C12H24O3 | 1010431-57-1 | 47 |
| 4 | Methoxyacetic acid, 2-tridecyl e... | 272 | C16H32O3 | 1000282-04-5 | 46 |
| 5 | Carbonic acid, butyl 2-pentyl ester | 188 | C10H20O3 | 1000357-84-0 | 43 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

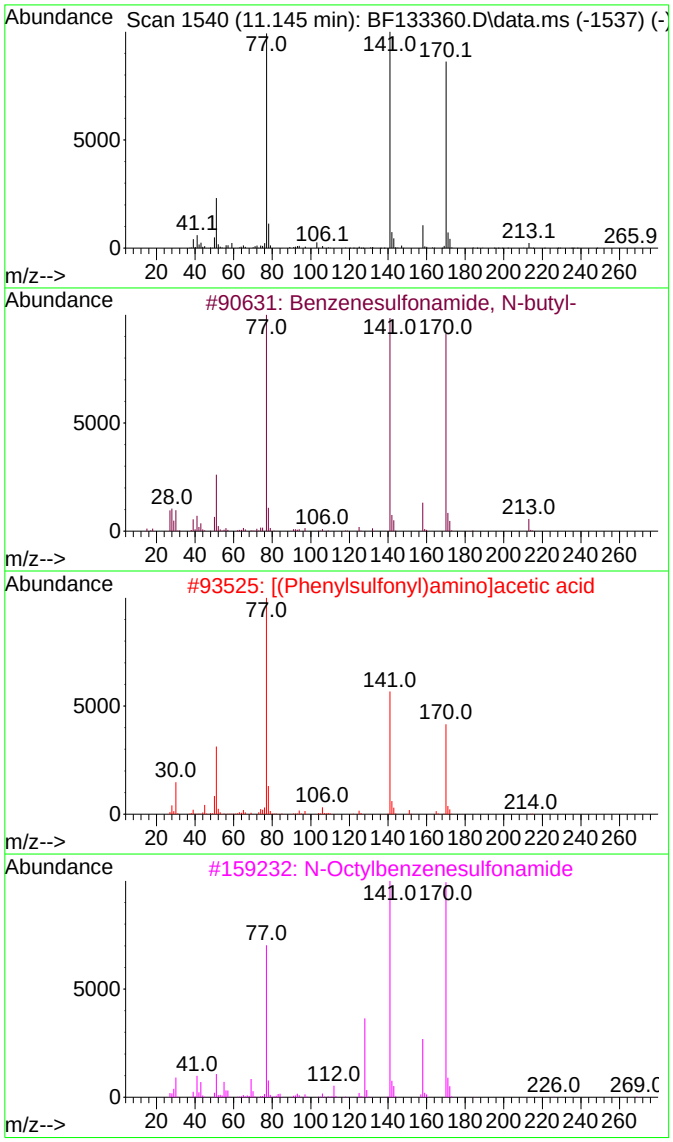
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

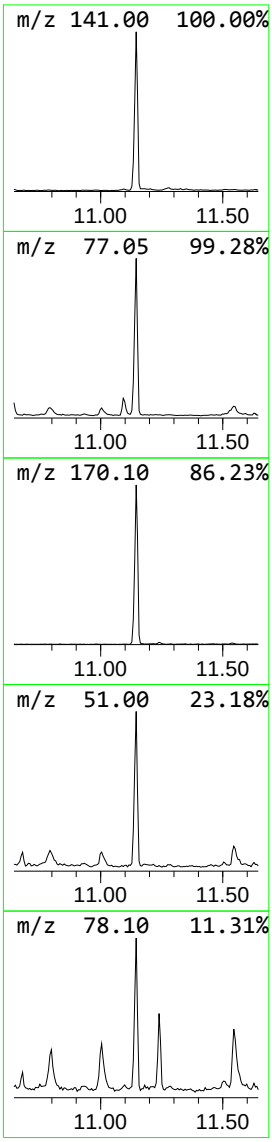
**********

Peak Number 12 Benzenesulfonamide, N-butyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.145 | 14.85 ng | 1208830 | Phenanthrene-d10 | 11.239 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, N-butyl- | 213 | C10H15NO2S | 003622-84-2 | 91 |
| 2 | [(Phenylsulfonyl)amino]acetic acid | 215 | C8H9NO4S | 005398-96-9 | 64 |
| 3 | N-Octylbenzenesulfonamide | 269 | C14H23NO2S | 016358-32-0 | 64 |
| 4 | N-Benzenesulfonyloxy-2,2-bis(tri... | 335 | C10H7F6NO3S | 055734-41-3 | 50 |
| 5 | 2-propenoic acid, 2-methyl-, 2-[... | 269 | C12H15NO4S | 1000401-71-8 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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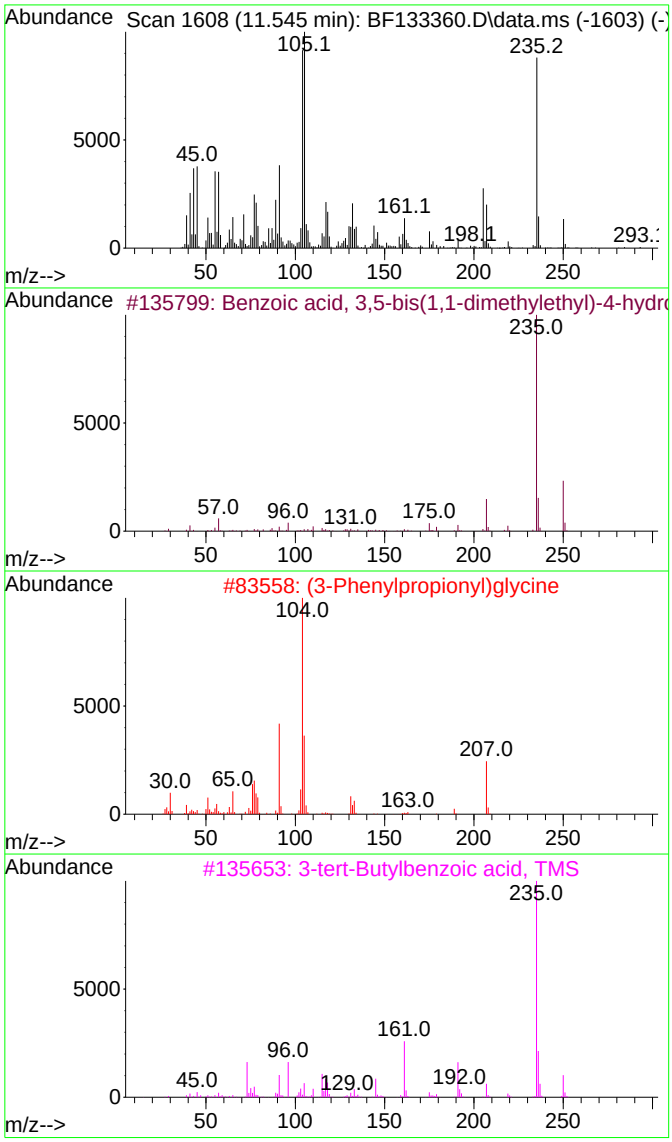
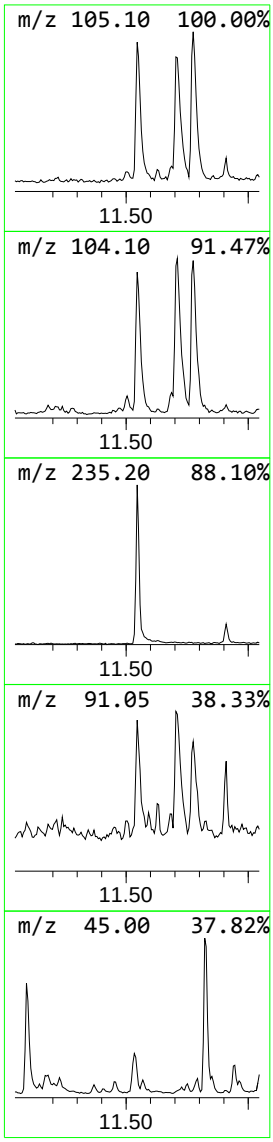
Peak Number 13 unknown11.545 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.545 | 17.92 ng | 1458170 | Phenanthrene-d10 | 11.239 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 3,5-bis(1,1-dimeth... | 250 | C15H22O3 | 001421-49-4 | 38 |
| 2 | (3-Phenylpropionyl)glycine | 207 | C11H13NO3 | 056613-60-6 | 30 |
| 3 | 3-tert-Butylbenzoic acid, TMS | 250 | C14H22O2Si | 1000507-56-6 | 27 |
| 4 | 4H-Furo[3,2-b]pyrrole-5-carboxyl... | 235 | C12H13NO4 | 1000318-88-8 | 27 |
| 5 | Pyrazole, 5-amino-1,3-diphenyl- | 235 | C15H13N3 | 005356-71-8 | 25 |



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Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

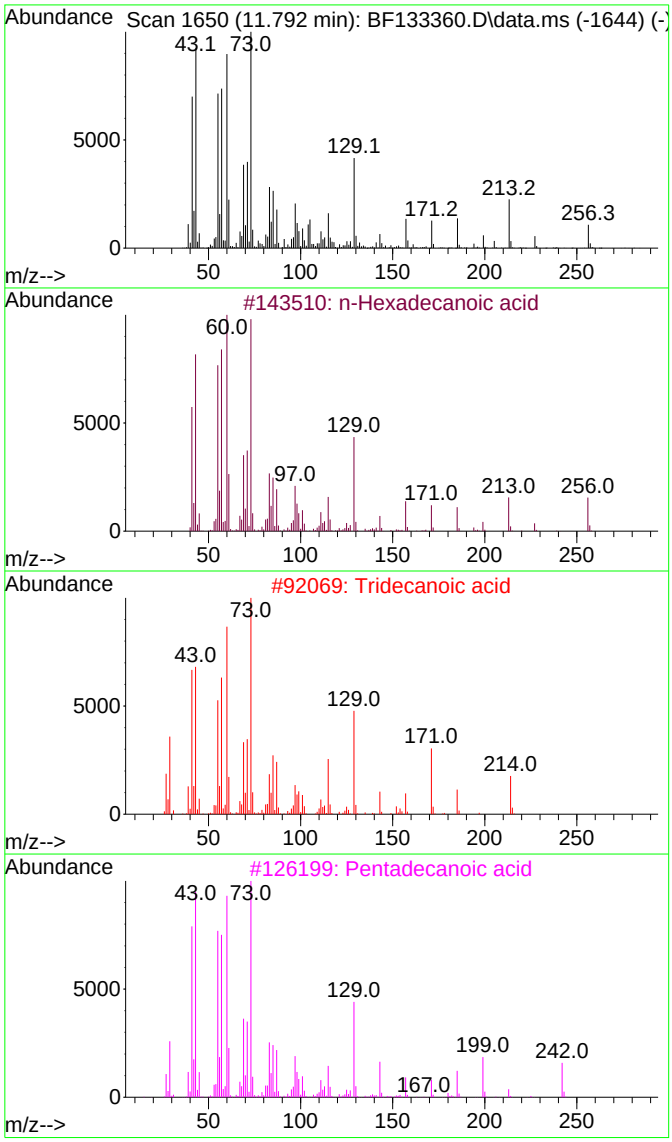
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

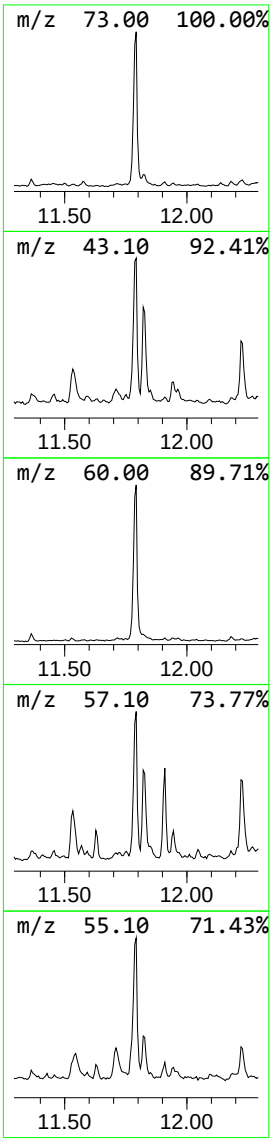
**********

Peak Number 14 n-Hexadecanoic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.792 | 36.62 ng | 2979850 | Phenanthrene-d10 | 11.239 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 95 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 91 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 70 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

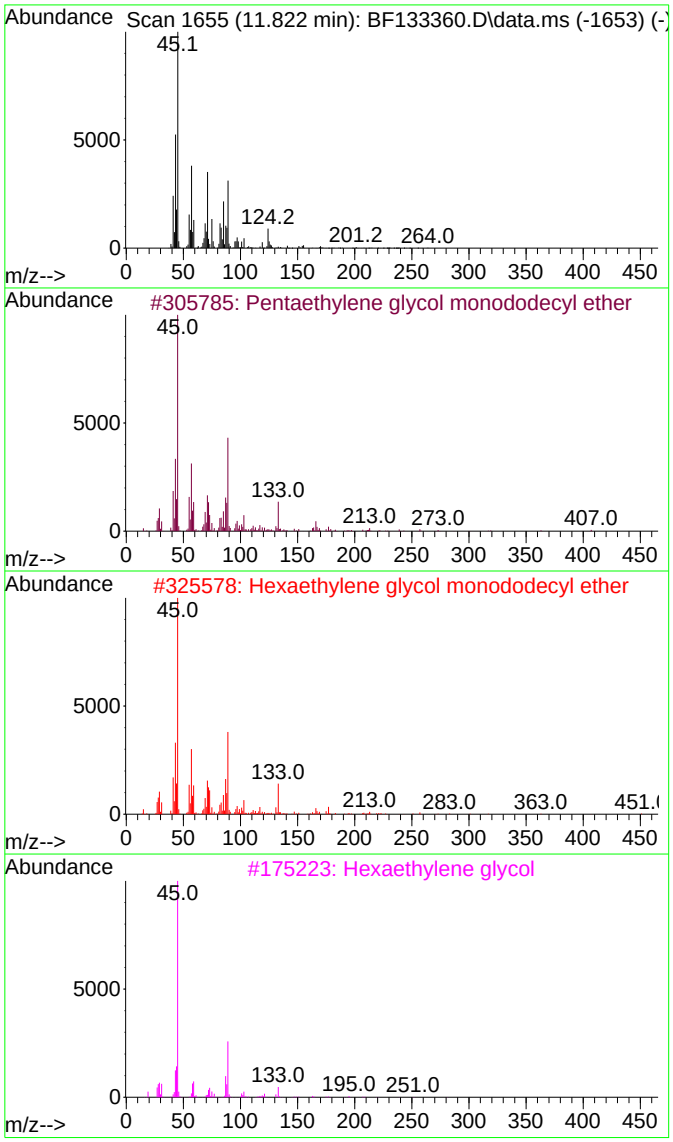
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

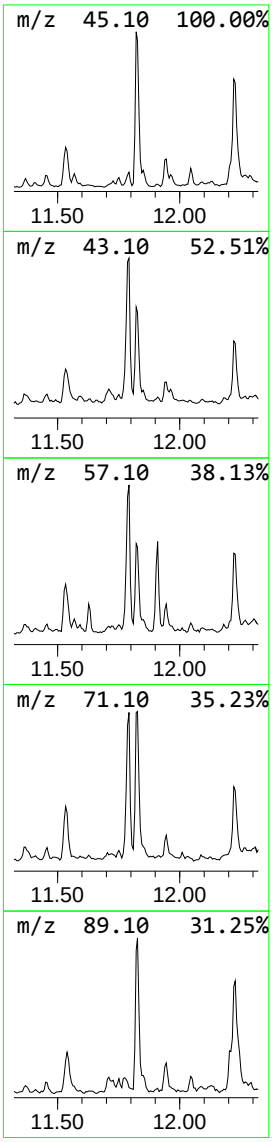
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Pentaethylene glycol monodo... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.822 | 14.40 ng | 1172240 | Phenanthrene-d10 | 11.239 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentaethylene glycol monododecyl... | 406 | C22H46O6 | 003055-95-6 | 72 |
| 2 | Hexaethylene glycol monododecyl ... | 450 | C24H50O7 | 003055-96-7 | 64 |
| 3 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 58 |
| 4 | Heptaethylene glycol | 326 | C14H30O8 | 005617-32-3 | 58 |
| 5 | 2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 58 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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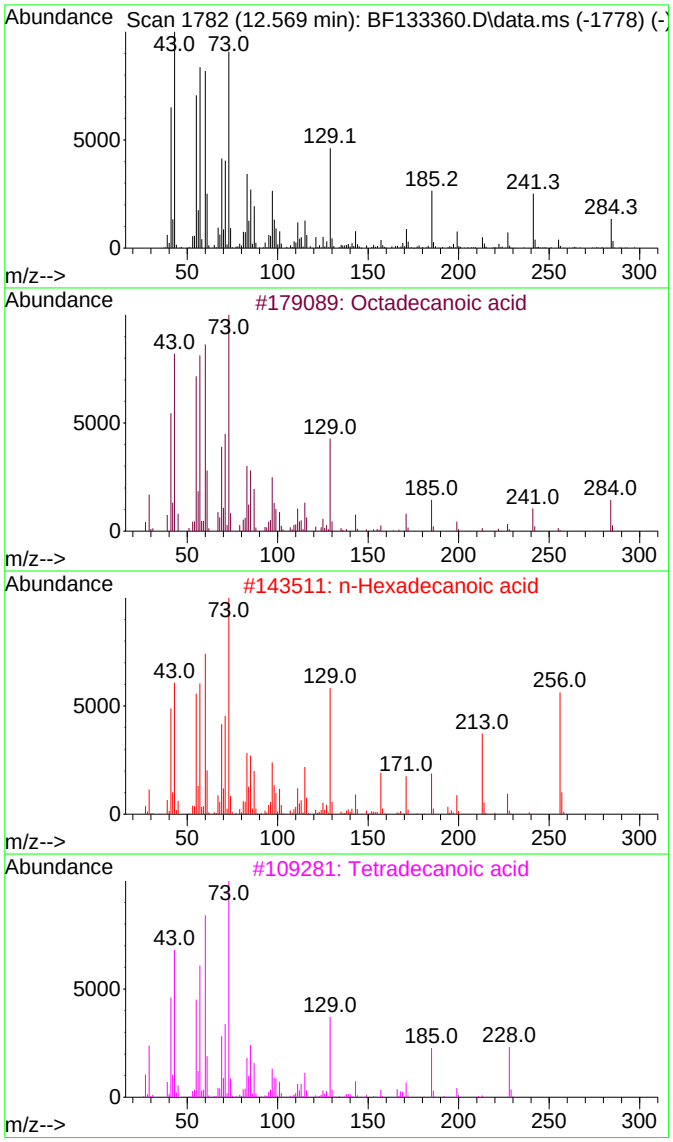
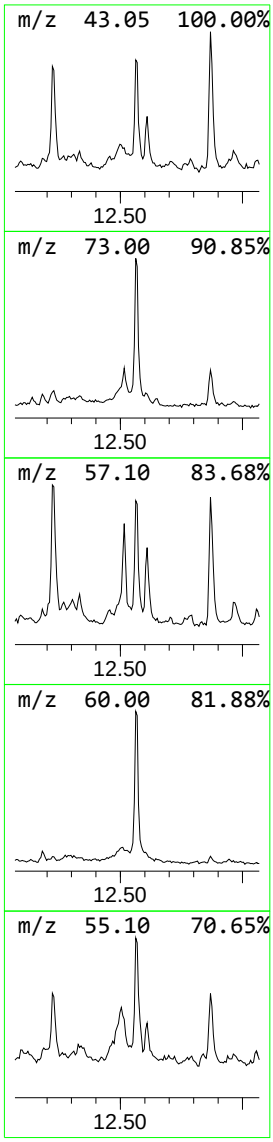
Peak Number 16 Octadecanoic acid Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.569 | 17.25 ng | 1090010 | Chrysene-d12 | 13.874 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 91 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 87 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 86 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 76 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

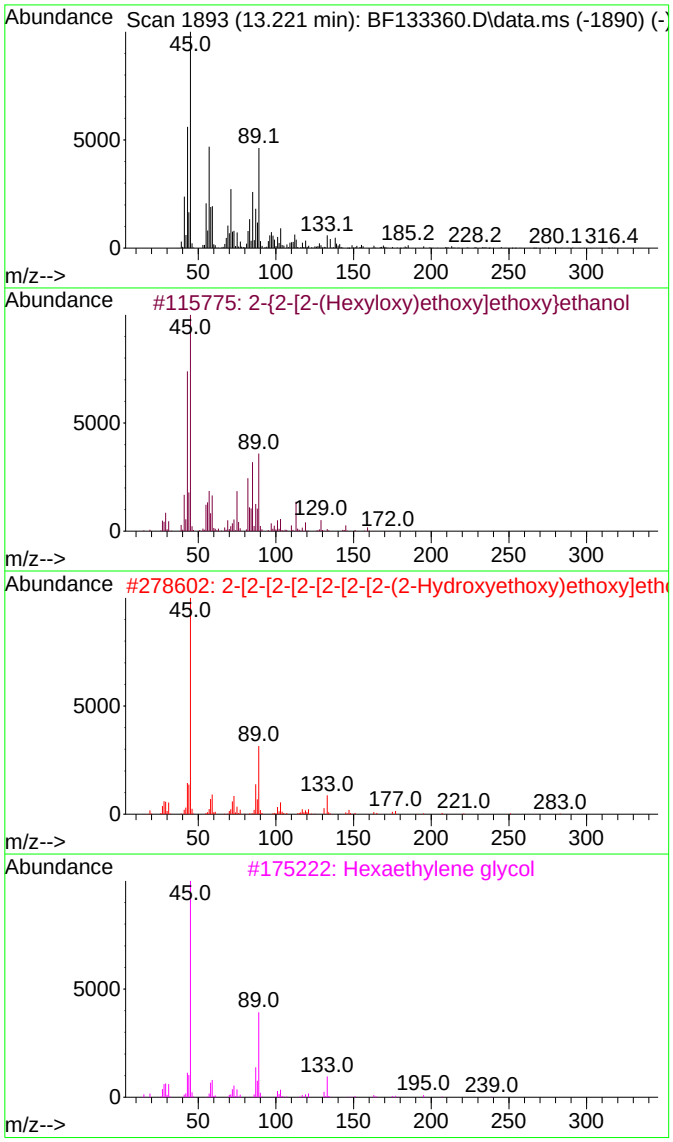
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

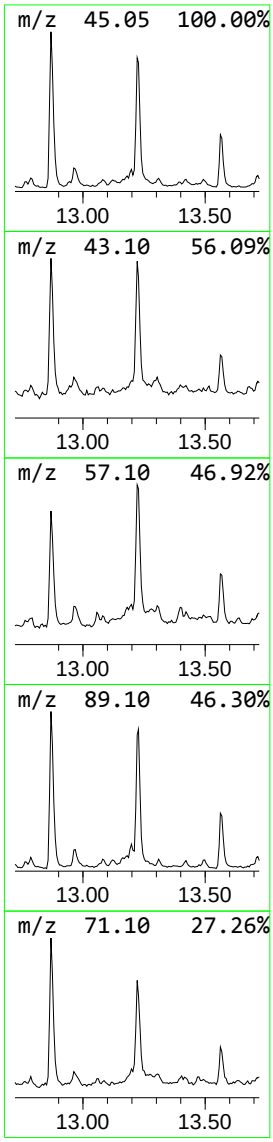
**********

Peak Number 17 2-{2-[2-(Hexyloxy)ethoxy]et... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.221 | 24.43 ng | 1543530 | Chrysene-d12 | 13.874 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-{2-[2-(Hexyloxy)ethoxy]ethoxy}... | 234 | C12H26O4 | 025961-89-1 | 53 |
| 2 | 2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 52 |
| 3 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 50 |
| 4 | 2-[2-[2-[2-[2-[2-[2-(2-Hydrox... | 414 | C18H38O10 | 003386-18-3 | 50 |
| 5 | Heptaethylene glycol | 326 | C14H30O8 | 005617-32-3 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

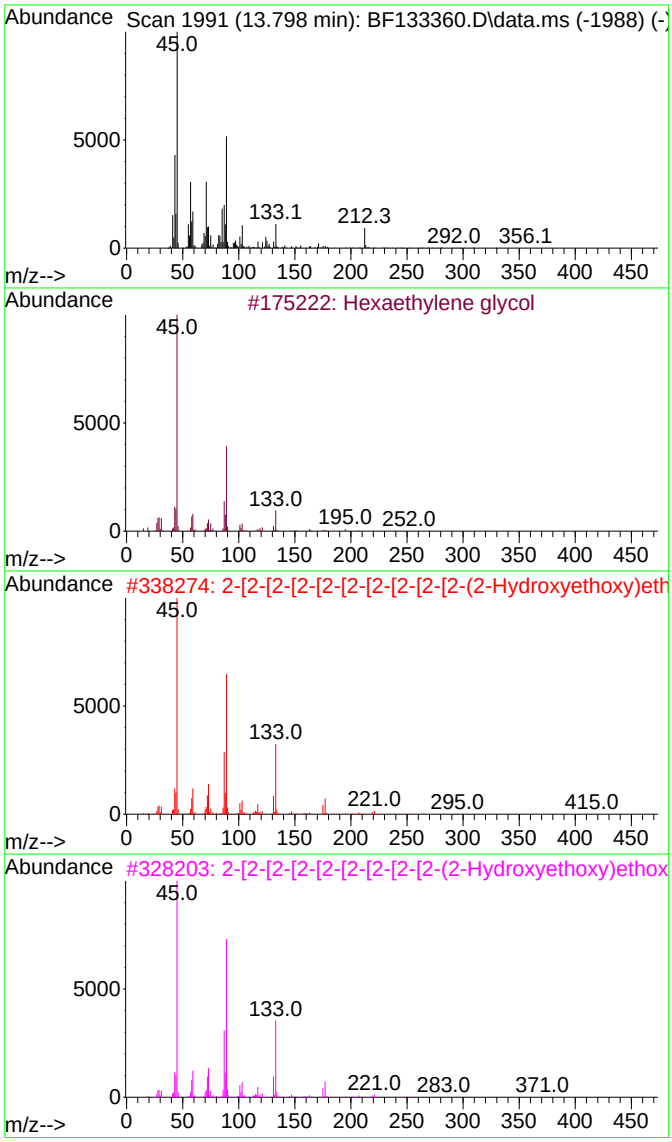
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

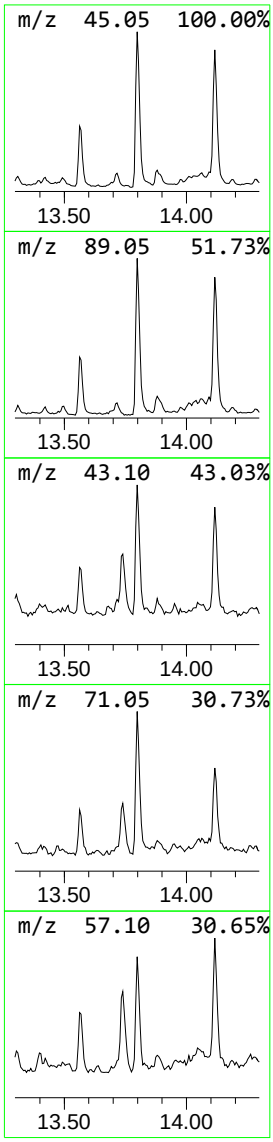
**********

Peak Number 18 Hexaethylene glycol Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.798 | 20.76 ng | 1311370 | Chrysene-d12 | 13.874 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 83 |
| 2 | 2-[2-[2-[2-[2-[2-[2-[2-[2-(2-... | 502 | C22H46O12 | 006809-70-7 | 80 |
| 3 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Hyd... | 458 | C20H42O11 | 005579-66-8 | 80 |
| 4 | 2-[2-[2-[2-[2-[2-[2-(2-Hydrox... | 414 | C18H38O10 | 003386-18-3 | 80 |
| 5 | 2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 80 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

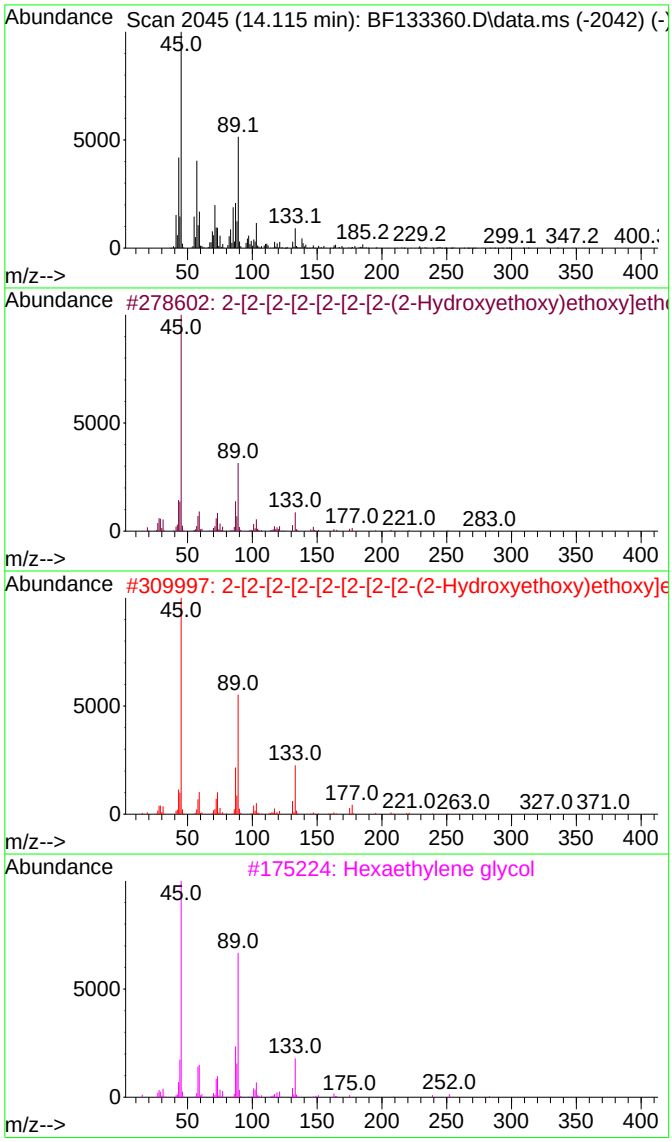
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

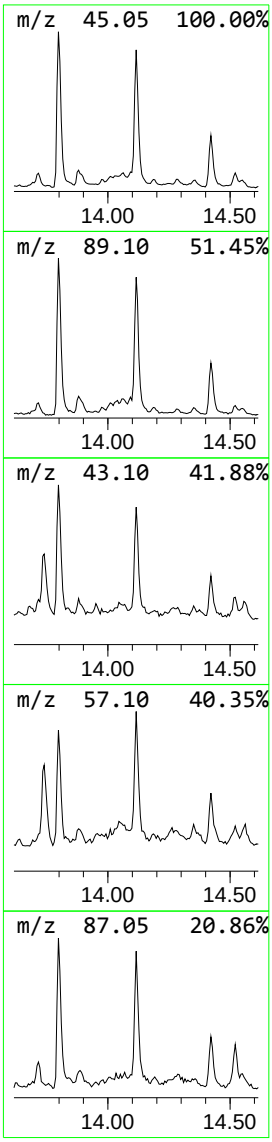
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 2-[2-[2-[2-[2-[2-[2-(2-Hydr... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.116 | 19.93 ng | 1259430 | Chrysene-d12 | 13.874 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-[2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 87 |
| 2 | 2-[2-[2-[2-[2-[2-[2-[2-(2-Hydrox... | 414 | C18H38O10 | 003386-18-3 | 80 |
| 3 | Hexaethylene glycol | 282 | C12H26O7 | 002615-15-8 | 80 |
| 4 | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6 | 001786-94-3 | 80 |
| 5 | 3,6,9,12-Tetraoxahexadecan-1-ol | 250 | C12H26O5 | 001559-34-8 | 80 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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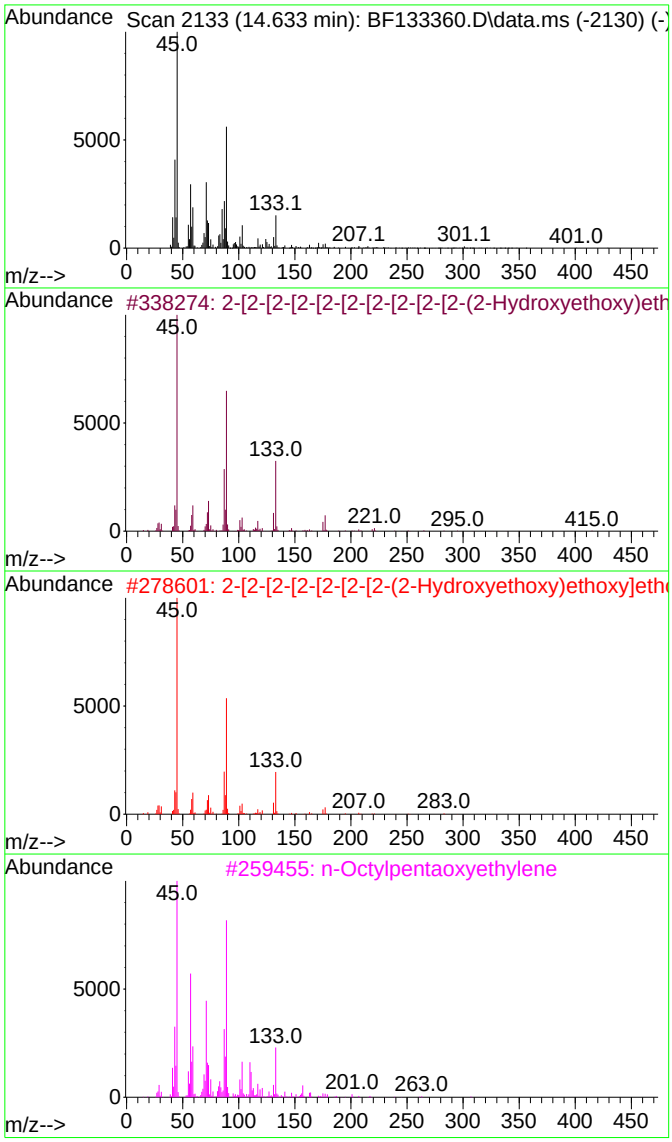
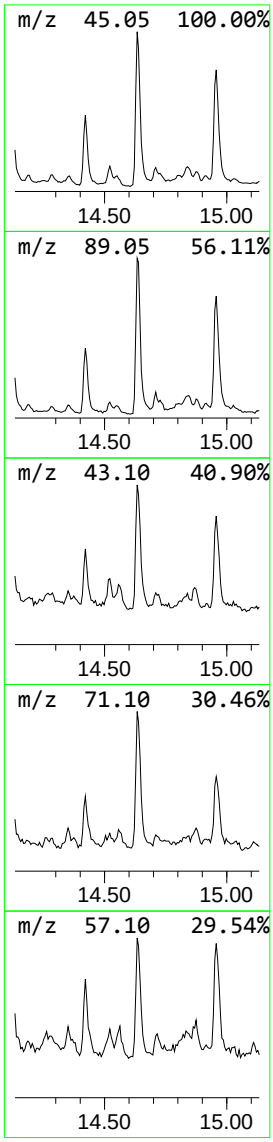
Peak Number 20 2-[2-[2-[2-[2-[2-[2-[2-[2-[... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.633 | 14.59 ng | 1125010 | Perylene-d12 | 15.292 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-... | 502 | C22H46O12 | 006809-70-7 | 83 |
| 2 | 2-[2-[2-[2-[2-[2-[2-(2-Hydroxyet... | 370 | C16H34O9 | 005117-19-1 | 83 |
| 3 | n-Octylpentaoxyethylene | 350 | C18H38O6 | 019327-40-3 | 83 |
| 4 | 3,6,9,12,15-Pentaoxanonadecan-1-ol | 294 | C14H30O6 | 001786-94-3 | 83 |
| 5 | 2-[2-[2-[2-[2-[2-[2-[2-[2-[2-... | 546 | C24H50O13 | 1000352-12-7 | 80 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051123\
Data File : BF133360.D
Acq On : 11 May 2023 18:09
Operator : CG\JU
Sample : 02744--01
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-OILYWATER

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown5.528 | 5.528 | 54.4 | ng | 3099230 | 1 | 6.722 | 1139910 | 20.0 |
| Cyclohexanone | 5.581 | 66.7 | ng | 3799950 | 1 | 6.722 | 1139910 | 20.0 |
| Butanoic acid, ... | 5.663 | 67.2 | ng | 3831070 | 1 | 6.722 | 1139910 | 20.0 |
| Ethanol, 2-butoxy- | 5.804 | 861.3 | ng | 49089400 | 1 | 6.722 | 1139910 | 20.0 |
| Pyrazine, ethyl- | 5.840 | 16.1 | ng | 915785 | 1 | 6.722 | 1139910 | 20.0 |
| 2-Propanol, 1-b... | 6.075 | 86.4 | ng | 4922480 | 1 | 6.722 | 1139910 | 20.0 |
| Hexanoic acid | 6.551 | 46.0 | ng | 2622400 | 1 | 6.722 | 1139910 | 20.0 |
| 1-Hexanol, 2-et... | 6.816 | 65.3 | ng | 3718740 | 1 | 6.722 | 1139910 | 20.0 |
| 1H-Benzotriazol... | 9.969 | 13.4 | ng | 6029500 | 3 | 9.769 | 8963560 | 20.0 |
| unknown10.639 | 10.639 | 18.3 | ng | 1487380 | 4 | 11.239 | 1627570 | 20.0 |
| Methoxyacetic a... | 11.092 | 17.9 | ng | 1457160 | 4 | 11.239 | 1627570 | 20.0 |
| Benzenesulfonam... | 11.145 | 14.9 | ng | 1208830 | 4 | 11.239 | 1627570 | 20.0 |
| unknown11.545 | 11.545 | 17.9 | ng | 1458170 | 4 | 11.239 | 1627570 | 20.0 |
| n-Hexadecanoic ... | 11.792 | 36.6 | ng | 2979850 | 4 | 11.239 | 1627570 | 20.0 |
| Pentaethylene g... | 11.822 | 14.4 | ng | 1172240 | 4 | 11.239 | 1627570 | 20.0 |
| Octadecanoic acid | 12.569 | 17.3 | ng | 1090010 | 5 | 13.874 | 1263580 | 20.0 |
| 2-{2-[2-(Hexylo... | 13.221 | 24.4 | ng | 1543530 | 5 | 13.874 | 1263580 | 20.0 |
| Hexaethylene gl... | 13.798 | 20.8 | ng | 1311370 | 5 | 13.874 | 1263580 | 20.0 |
| 2-[2-[2-[2-[2-[... | 14.116 | 19.9 | ng | 1259430 | 5 | 13.874 | 1263580 | 20.0 |
| 2-[2-[2-[2-[2-[... | 14.633 | 14.6 | ng | 1125010 | 6 | 15.292 | 1541660 | 20.0 |